

Curriculum Vitae

With Complete List of Publications

Atanu Kumar Pati, PhD, FNASc, FNAMS

Vice Chancellor

Gangadhar Meher University

Amruta Vihar

Sambalpur - 768 004, Odisha

Professor of Bioscience [on Lien]

School of Studies in Life Science

Pt. Ravishankar Shukla University

Raipur – 492010, Chhattisgarh

Biographical Details

Name: Atanu Kumar PATI
Date of birth: March 26, 1956
Place of birth: Cuttack
Designation: Vice Chancellor
Marital status: Married; Blessed with two sons
Address:

Office Vice Chancellor
Gangadhar Meher University
Amruta Vihar, Sambalpur 768 004, Odisha, India
Phone: +91-663-2403413
Mobile: +91-9826654829
Fax: +91-663-2403413
Email: vc@gmuniversity.ac.in; akpati19@gmail.com

Residence C # 404, Green Park Residency
Sambalpur 768 001, Odisha, India
Mobile: +91-9826654829

Education

1. High School Certificate, Board of Secondary Education, Orissa, 1971
2. B.Sc., Utkal University, 1975, Biology (Honours in Zoology)
3. M.Sc., Banaras Hindu University, 1977, Zoology (Reproduction Biology & Endocrinology)
4. Ph.D., Banaras Hindu University, 1982, Zoology (Sub area: Chronobiology)
5. Cours de Chronobiologie, L'Université V, Paris, 1986
6. Diploma in French, Pt. Ravishankar Shukla University, 2001

Experience

Professional

1. Research Associate (UGC), Banaras Hindu University, 1982-83
2. Lecturer, Pt. Ravishankar Shukla University, 1983-90
3. Post-doctoral Fellow, Hôpital Paul Brousse, Villejuif (L'Université V, Paris), 1985-86
4. Reader, Pt. Ravishankar Shukla University, 1990-1998
5. Professor, Pt. Ravishankar Shukla University, 1998-Till date [Now on Lien]
6. Vice Chancellor, Gangadhar Meher University, 26 July 2017-present
7. Vice Chancellor, Odisha State Open University, 16.11.2017-31.12.2017

Academic

1. Member, Drafting Committee, Chhattisgarh Biodiversity Strategy and Action Plan, 2002
2. Member, State Steering Committee, Chhattisgarh Biodiversity Strategy and Action Plan, 2002
3. Member, Technical Core Group, Chhattisgarh Biodiversity Strategy and Action Plan: Monitoring and Conservation, 2002
4. Member, National Planning Committee for the SERC School in Chronobiology, 2002-2007
5. Member, BoS in Bioscience and Biotechnology, Pt. RSU, Raipur, 2003-2005

6. Member, Institutional Animal Ethics Committee (IAEC), Pt. RSU, Raipur, 2004-2007
7. Member, Quality Advisory Committee (NAAC), Pt. RSU, Raipur, 2004-2010
8. Chairman, BoS in Bioscience, Microbiology & Biochemistry, Pt. Ravishankar Shukla University, Raipur, 2005-2008
9. Member of Prospectus Committee, Pt. Ravishankar Shukla University, Raipur
10. Member, Academic Council, Pt. Ravishankar Shukla University, Raipur, 2005-2008
11. Member, Advisory Committee, DRS-SAP sanctioned to School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, 2004-2009
12. Member, Project Evaluation Committee, Chhattisgarh Private University Regulatory Commission, Govt. of Chhattisgarh
13. Member, Selection Committee for Lecturer in Zoology, G.H. Rasoni National College, Raipur
14. Member, Examination Committee, Pt. Ravishankar Shukla University, Raipur
15. Expert, Research Project Evaluation Committee, CCOST, Raipur
16. Chairman, Brochure Compilation & Printing Committee, XII, XIII, XIV, XV, XVI, XVII Convocations, Pt. Ravishankar Shukla University, Raipur
17. Chairman, Citation Committee, XII, XIII, XIV, XV, XVI, XVII Convocations, Pt. Ravishankar Shukla University, Raipur
18. Member, BoS in Zoology, Dr. H.S. Gour Vishwavidyalaya, Sagar, from 2007-2010
19. Member, BoS in Bioscience, Barkatullah Vishwavidyalaya, Bhopal, from 2007-2010
20. Member, BoS in Zoology, Gurukul Kangri University, Harwar, from 2007-2009
21. Member, BoS in Zoology, Vikram University, Ujjain, from 2007-2010
22. Director, Academic Staff College, Pt. Ravishankar Shukla University, Raipur, from 2006-2008
23. Member, School Board in Sciences, Nagaland University, Kohima, 2008
24. Member, BoS in Zoology, Govt. Science College, Durg, 2007
25. Member, BoS in Zoology, D.B. Girls PG College, Raipur, 2007
26. Member, Institutional Animal Ethics Committee (IAEC), Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, 2007
27. Member, Academic Planning and Evaluation Board, Pt. Ravishankar Shukla University, January 2010-2013
28. Chairperson, Committee to draft Re-Accreditation Report (RAR) of PRSU, Raipur, submitted to NAAC, Bangalore, 2010
29. Member Secretary, Institutional Ethics Committee for Human Research, Pt. Ravishankar Shukla University, Raipur, 2010-2014
30. Coordinator, UGC DRS-SAP Phase-II, sanctioned to School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, 2010-2015
31. Member, Vision Committee, Pt. Ravishankar Shukla University, Raipur, 2011-Present
32. Chairman, BoS in Bioscience, Pt. Ravishankar Shukla University, Raipur, 2011-2014
33. Director, National Center for Natural Resources, sanctioned to Pt. Ravishankar Shukla University, Raipur, by DST, New Delhi, 2012-2017
34. Coordinator, UGC DRS-SAP Phase-III, sanctioned to School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, 2016-Present

Administrative

1. Member, Executive Council, RSU Teachers Association, 1989-91, 1993-1995
2. Warden, C.S. Azad Hostel, Pt. Ravishankar Shukla University, Raipur, 1990-92
3. Secretary, Ravishankar Shukla University Teachers Association, 1991-93
4. Chief Warden, Boys Hostel, Pt. Ravishankar Shukla University, Raipur, 1992-93
5. Vice-President, Shikshak Kalyan Sangathan, Pt. RSU, Raipur, 1996-2002
6. Assistant Proctor, Pt. Ravishankar Shukla University, Raipur, 2000-2002
7. Member, Anti-Ragging Committee, 2000-2001
8. Member, Vidyalaya Management Committee, Central School, Raipur, 2003-2006
9. Member, Library Committee, Pt. Ravishankar Shukla University, Raipur, 2005-2012
10. Coordinator, Flying Squad, 2005-2006
11. Coordinator, Question paper distribution at the Distribution center located in Govt. P.G. College, Dhamtari, 2005-2006
12. Chairman or member in different Inspection Committees for number of Institutions and Colleges for approval of new courses and for affiliation of Colleges, Institutions to the Pt. Ravishankar Shukla University, Raipur.
13. Member, Chhattisgarh Biodiversity Board, Govt. of Chhattisgarh

14. Member, Implementation Committee, Chhattisgarh Vyavasaik Pariksha Mandal, Raipur, 2006-2007
15. Member, Flying squad, Pt. Ravishankar Shukla University, Raipur, 2005
16. Proctor, Pt. Ravishankar Shukla University, Raipur, July 2009-August 2010
17. Chairperson, Central Anti-ragging Committee, Pt. RSU, Raipur, for the session 2009-10
18. Chairman, Grievance Redress Cell, School of Life Sciences, PRSU, Raipur, 2010-2013
19. Chairman, Departmental Research Committee, School of Life Sciences, PRSU, Raipur, 2010-2013
20. Chairman, Staff Council, School of Life Sciences, PRSU, Raipur, 2010-2013
21. Member, Complaints Committee (Sexual Harassment at Workplace), PRSU, Raipur, 2011-2017

Honours

1. Secretary, Indian Society for Chronobiology, 1990-2008
2. Convener, International Symposium on Current Status of Chronobiology, 1990
3. Organizing Secretary, DST Group Monitoring Workshop in Animal Sciences, 1995
4. Secretary, Indian Pineal Study Group, 1995-1999
5. Organizing Secretary, Silver Jubilee Meetings of Ethological Society of India and National Symposium on Behaviour, 1996
6. Member, Executive Body, The Ethological Society of India, Bangalore, 1997-1999
7. Vice-President, Indian Pineal Study Group, 1999-2002
8. President, Indian Pineal Study Group, 2002-2007
9. Council Member, World Federation of Societies of Chronobiology, 2002-2006
10. Course Director & Coordinator, Second SERC School in Chronobiology, 2003
11. Convener, National Colloquium on Cave Organisms and Adaptation, 2004
12. Convener, XVII International Symposium of Biospeleology, November 25-30, 2004
13. Council Member, International Society of Subterranean Biology, 2004-2012
14. President, Society of Speleology and Subterranean Biology, 2004-present (dormant)
15. Member, International Scientific Board, First International Congress of Applied Chronobiology and Chronomedicine, Turkey, 2005
16. Member, International Project on the BIOSphere and the COSmos (BIOCOS), April 2005-present
17. Member, International Scientific Board, Second International Congress of Applied Chronobiology and Chronomedicine, Tunisia, 2007
18. Course Director, Multinational Graduate Course on Basic Chronobiology with Reference to Chronomedicine, 2-7 November 2008
19. Member, International Scientific Board, Third International Congress of Applied Chronobiology and Chronomedicine, Israel, 2009
20. President, Indian Society for Chronobiology, 2008-2017
21. Chairperson; Work, Every Day Life; Session 4; Section – Attention, Performance, Accidents, Sport; The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. V-VI.
22. Proctor, Pt. Ravishankar Shukla University, July 2009-2010
23. Dean, Faculty of Life Science, Pt. Ravishankar Shukla University, January 2010-2012
24. Editor-in-Chief, Journal of Ravishankar University, Part B (Science) from 2009-2017
25. Member, Executive Council, Pt. Ravishankar Shukla University, January 2010-2012
26. Coordinator, INSPIRE Internship Program, PRSU, Raipur, 2010-2011
27. Member, IQAC Coordination Committee, NAAC peer team visit, September 2010
28. Director, IQAC, Pt. Ravishankar Shukla University, Raipur, from July 2011-2017
29. Member, International Advisory Committee, International Congress on Chronobiology, Delhi, 2012
30. Expert (UGC Nominee), UGC-SAP(DRS-II), Department of Life Science, Assam University, Silchar, Assam, from 2013
31. UGC Nominee as Subject Expert and Member in the Advisory Committee for the UGC-SAP (DRS-II), Department of Life Science and Bioinformatics, Assam University, Silchar, 2016-present
32. UGC Nominee as Subject Expert and Member in the Advisory Committee for the UGC-SAP (DRS-II), Department of Zoology, University of Kerala, Thiruvananthapuram, 2016-present
33. Life Member, Indian National Trust for Art and Cultural Heritage (INTACH), 2016-present
34. Member, State Level Quality Assurance Cell (SLQAC), Chhattisgarh 2016-present

35. Member, State Pollution Control Board, Odisha, from 29th November 2018 - present

Scholarships

Indian:

1. Junior Merit Scholarship (Govt. of India, 1971-72)
2. National Scholarship (Govt. of India, 1975-77)
3. Junior Research Fellow (UGC, New Delhi, 1977-79)
4. Senior Research Fellow (UGC, New Delhi, 1979-82)
5. Research Associate (UGC, New Delhi, 1982-1983)
6. Research Associate (CSIR, New Delhi, 1983; Not joined)

Foreign:

1. French Govt. Fellowship Award, 1985-86

Awards

1. UGC Research Award, 2002-2005
2. P.P.A.K.S. Minhas Award, Vocational Rotary Award for the session 2007-2008 in the field of Science & Technology

Fellowship

1. Fellow of the National Academy of Sciences, India (F.N.A.Sc.), Year of election: 2003
2. The First Fellow of the Indian Society of Chronomedicine, Year of election: 2015
3. Fellow of the National Academy of Medical Science (FNAMS), Year of election: 2018

Professional Society Membership

National:

1. Indian Society for Chronobiology (Life)
2. Indian Society for Life Sciences (Annual)
3. Indian Science Congress Association (Annual)
4. Chhattisgarh Botanical Association (Life)
5. Indian Society for Comparative Endocrinology (Life; Founder member)
6. Journal of Parasitology & Applied Animal Biology (Life)
7. Indian Pineal Study Group (Life)
8. The Ethological Society of India (Life)
9. Indian Society for Environmental Endocrinology (Life)
10. Zoo Outreach Organization (Annual)
11. Society for Environmental Ecology and Development (Life)
12. The National Academy of Sciences, India (Life)
13. Society of Speleology and Subterranean Biology, India (Life)
14. Indian Society of Chronomedicine (Life)

International:

1. International Society for Chronobiology
2. Association Conferences Rythmes Biologiques et Medicaments (Past member)
3. International Society of Subterranean Biology, from 2000
4. International Association for Research on Time in Biology and Chronotherapy (ARTBC International), Paris, France, 2007-2015
5. Biosphere and Cosmos (BIOCOS), Minnesota, USA, from 2005

Research Experience

Guidance Experience:

1. Ph.D. guided: 23*; Current Ph.D. Students Working: 6
*Includes 3 Co-guidance
2. M.Phil. Guided: 10; Current M.Phil. Students Working: Nil
(M.Phil. program of School of Life Sciences discontinued from 1995 till 2007)

Ph.D. Thesis (with year of Award)

1. Mr. Jayant Biswas (1990): Biospeleology: the behavioral and physiologic adaptations in a cavernicole.
2. Ms. Satvant Kaur Saini (1991): Some aspects of Chronobiology in chickens relating to the schedule-shift and hormones.
3. Ms. Shobha Gupta (1992): Analysis of circadian time structure in shiftworkers and diurnal healthy human subjects.
4. Mr. S.A. Dixit (1994): Ecological behaviour of rice hoppers, greenleaf hoppers, *Nephotettix virescens* (Distant), whitebacked planthopper, *Sogatella furcifera* (Horvath) and brown planthopper, *Nilaparvata lugens* (Stal.) in Chhattisgarh area.
5. Ms. Maya Shedpure (1995): Extra-reproductive role of pineal in freshwater catfish.
6. Ms. Elizabeth Varghese (1997): Behavioral thermoregulation in air-breathing catfish: the role of the pineal and melatonin.
7. Mr. Arvind Agrawal (1997): Studies on bagworms (Lepidoptera: Psychidae) of the Chhattisgarh region with special reference to biology, taxonomy, case construction behaviour, and insect plant interaction.
8. Ms. Arti Chandrawanshi (1998): Shiftwork: health, physiologic and psychosocial aspects.
9. Ms. Seema Gupta (1998): Some aspects of endocrine regulation of surfacing behaviour in an air-breathing catfish, *Clarias batrachus*.
10. Ms. Renu Maheshwari (1999): An analysis of air-gulping behaviour of the catfish, *Heteropneustes fossilis*, with reference to hormonal regulation.
11. Ms. Seema Tiwari* (1999): Insect pests scenario of Soybean and its natural biological control.
12. Ms. Kavita Das (2006): Studies on the cerebral neuroendocrine system and the neuroendocrine control of vitellogenesis in the *Antheraea mylitta* D. (Lepidoptera; Saturniidae).
13. Mr. K. Venu Achari (2007). Morningness-eveningness, lifestyle and longevity in shift workers.
14. Mr. Omji Gupta* (2008). Physiological rhythms and performance among sports persons.
15. Ms. Shipra Sinha (2009). Behavioural ecology of the crab, *Barytelphusa cunicularis*.
16. Ms. Anjana Kar (2009). Circadian rhythm in cancer and diabetic patients.
17. Mr. Anil Ramteke (2010). Circadian time structure (CTS) in locomotor activity of Indian walking catfish, *Clarias batrachus* and the effect of moonlight (ML).
18. Ms. Pushpa Poddar (2011). Entrainment characteristics of locomotor activity rhythm in Indian catfish, *Clarias batrachus*.
19. Mr. Hrishikesh Patel* (2011). Study of circadian rhythm in heart rate, physical activity, activity intensity and energy expenditure of sports persons.
20. Ms. Razia Sultana (2012). Study of dipping and nondipping patterns in blood pressure in healthy, diabetic and hypothyroidic subjects.
21. Ms. Babita Pande (2013). Time estimation (short intervals) in human subjects under free living and constant routine conditions.
22. Arati Singh (2015). Foraging and nest-building behavior of Indian cliff swallow, *Hirundo fluviicola* (Blyth, 1855).
23. Shrutika Kankariya (2015). The ecology and behavior of Indian swift, *Apus affinis* (Gray, 1830).

M. Phil. Thesis (with year of Award):

1. Ms. Namita Mishra (1988): Some aspects of hormonal control of feather rejuvenation in domestic fowls.

2. Ms. Shobha Gupta (1989): Oxidative metabolism and erythropoiesis in Indian garden lizard: circadian stage dependent in vivo and in vitro response to thyroxine and human urinary erythropoietin.
3. Ms. Geeta Gupta (1990): Influence of late afternoon administration of melatonin on intermediary and energy metabolism in male house sparrow: is the effects gonad dependent?
4. Ms. Swati Jain (1991): Influence of temporal phase relationship of melatonin with thyroxine or testosterone on erythropoiesis and metabolism in a teleost.
5. Ms. V Vasanta (1992): Reproduction and metabolic responses in catfish, *Clarias batrachus*: scotophase scanning by 3-hour warm pulse.
6. Ms. Suparna Srivastava (1993): Electrolyte regulation in tropical catfish: role of the pineal gland.
7. Ms. Ananya Gangopadhyay (1994): Studies on ventilatory functions in shiftworkers.
8. Ms. Anuradha Sahu (2008): Circadian rhythm of phototactic behaviour in Indian stinging catfish, *Heteropneustes fossilis* as function of light intensity and feeding regimen.
9. Ms. Shalinee Meshram (2009). Effect of thyroxine (T4) hormone on locomotor activity of *Clarias batrachus*.
10. Mr. Kaushal Baghel (2012). Behavioural ecology of *Achatina fulica*.

Note: M.Phil. program of School of Life Sciences discontinued from 1995 till 2007

M. Sc. Dissertation:

1. Ms. Anjana Kar (2004): Wrist activity and sleep-wake rhythms in day active human subjects.
2. Mr. Ravi Shankar Kanoje (2004): Distribution and management of wild ungulates in Kanha National Park with special reference to swamp deer. Supervised with Dr. Andrew J. Lawrence, University of Hull, UK.
3. Ms. Razia Sultana (2006): Studies on circadian rhythms in rest-activity, time perception, axillary temperature, random number addition speed, and sleep behaviour in a group of apparently healthy young females.
4. Ms. Pratibha Kujur (2007): Circadian rhythm in blood pressure and heart rate as function of age and circadian typology.
5. Ms. Anupriya Chandraker (2010): Does obesity alter characteristics of circadian rhythm in energy expenditure and activity of female subjects?
6. Ms. Priya Sharma (2014): Comparative study of circadian rhythm of the core and shell temperatures in humans measured at different locations of the body.
7. Rainy Agrawal (2017). Circadian rhythm in activity of mixed population of human subjects in social networking sites.

Note: Introduced in M.Sc. curricula of the School of Life Sciences from 2004

B. Sc. Dissertation:

1. Mr. Arojit Mitra (2005): Circadian phenomenon: Indispensable, yet neglected.

Summer Project Dissertation:

1. Mr. Priyoneel Basu (2006): Diagnosing delayed sleep-phase syndrome using autorhythmometry, wrist actigraphy and ABPM: A case study.
2. Mr. Aditya Sanjay Karkare (2006): Descriptive and inferential biometry: validation of human circadian rhythms.
3. Ms. Megha Agrawal (2006): Autorhythmometric measurement of circadian blood pressure rhythm using ambulatory blood pressure monitoring: A review of its clinical and prognostic relevance.

Grant Support

Project 1: Evaluation of repeated synchronizer phase-shift effects on growth, circadian rhythm and chronosensitivity to hormones in chickens; Funding agency: CSIR, New Delhi; Tenure: 1986 – 1990.

Project 2: Reproductive, Physiological and behavioral adjustments in a cavefish: A study on retrogressive/ constructive evolution; Funding agency: DST, New Delhi; Tenure: 1987- 1989.

Project 3: Circadian time structure of shift workers: optimization for scheduling human shift-work; Funding agency: Partial support by Pt. R.S.S.U., UGC and CSIR in the form of JRF, SRF & RA to co-investigators working in the project; Tenure: 1992-2002.

Project 4: Impact of regressive evolution of circadian behavior: a comparative study of temporal organization in cave-adapted *Nemacheilus evezardi* and its ancestors; Funding Agency: DST, New Delhi; Tenure: 1995-1999

Project 5: Determination of Phase Angle Differences (Ψ) between the Circadian Locomotor Activity Rhythm and the Zeitgeber in the Cave Loach, *Nemacheilus evezardi*; Funding Agency: UGC (Minor); Tenure: 2000-2002

Project 6: Response of circadian clock of cave-dwelling hypogean loach and its epigeal ancestor to nonphotic cues; Funding Agency: UGC; Tenure: 2002-2005

Project 7: DRS to School of Life Sciences under the Special Assistance Program, Phase I. Identified Thrust Areas: Chronobiology; Funding Agency: UGC; Tenure: 2004-2009

Project 8*: Investigation of relationship between circadian rhythm type, psycho-physiological state and performance; Funding Agency: UGC; Tenure: 2006-2009

Project 9*: Circadian profile of nitrate reductase activity in *Jatropha curcas*; Funding Agency: CCOST; Tenure: 2008-2010

Project 10: Study of circadian rhythm in the cognitive ability to judge short-interval durations in humans and the effect of light at night (LAN); Funding Agency: DST; Tenure: 2010-2013

Project 11:** DRS to School of Life Sciences under the Special Assistance Program, Phase II. Identified Thrust Areas: Chronobiology; Funding Agency: UGC; Tenure: 2010-2015.

Project 12:** National Center for Natural Resources; Funding Agency: DST; Tenure: 2012-2015

Project 13: Inventory on earthworm biodiversity database of Raipur district of Chhattisgarh agro-ecosystems cultivating scented rice; CCOST; Tenure: 2014-2018

Project 14:** DRS to School of Life Sciences under the Special Assistance Program, Phase III. Identified Thrust Areas: Chronobiology; Funding Agency: UGC; Tenure: 2016-2021.

*Co-PI; **Coordinator

Symposia/Workshops/Meetings Organized

International

1. Organizing Secretary, International Symposium on Current Status of Chronobiology, November 24-26, 1990.
2. Organizing Secretary, XVII International Symposium on Bioregulation, November 25-30, 2004.
3. Organizing Secretary, Multinational Graduate Course on Basic Chronobiology with Reference to Chronomedicine, 2-7 November 2008
4. Organizing Secretary, 3rd International Congress of the Society for Ethnopharmacology (SFEC - 2016), February 19-21, 2016

National

1. Organizing Secretary, DST Group Monitoring Workshop in Animal Sciences, October 18-20, 1995.
2. Organizing Secretary, Silver Jubilee Meetings of ESI and National Symposium on Behaviour, December 28-30, 1996.
3. Organizing Secretary, National Seminar – cum – Workshop on Assessment and Accreditation (NAAC-sponsored), June 7-8, 2002.
4. Organizing Secretary, DST (SERC) Planning Committee Meeting for the Second Indian School on Chronobiology, December 13, 2002.

5. National Symposium on Innovations and Prospects in Life Sciences, December 14-16, 2002.
6. Organizing Secretary, Second SERC School in Chronobiology, October 08-19, 2003.
7. Organizing Secretary, XV National Symposium on Chronobiology, October 20-21, 2003.
8. Organizing Secretary, National Colloquium on Cave Organisms and Adaptation, May 22-23, 2004.
9. National Symposium on Biodiversity: Current Status and Prospects, October 17-18, 2005.
10. Convener, Trends & Techniques in Chronobiology: A Workshop, March 20-25, 2006.
11. Convener, XX National Symposium on Chronobiology, December 27-29, 2008.
12. Convener, Seminar: Environmental Issues & Challenges, March 29, 2010
13. Chairman, National Conference on Advances in Biological Sciences, November 5-7, 2011
14. Organizing Secretary, Workshop on E-Learning, January 28-30, 2013
15. Convener, II National Conference on Recent Advances in Biological Sciences, November 25-27, 2013
16. Convener, National Workshop on Trends & Techniques in Chronobiology, January 6-12, 2014.
17. Convener, Workshop on h-Index, i10-index & Citations, August 22-23, 2014
18. Convener, XXV National Symposium on Chronobiology – Time in Biology and Medicine, March 27-29, 2015
19. Convener, 3rd National Workshop: Trends & Techniques in Chronobiology, March 21-27, 2017

Publications (Summary)

| | | |
|-----|-------------------------------------|------------------|
| 1. | Review | 16 ^a |
| 2. | Papers in Refereed Foreign Journals | 68 |
| 3. | Papers in Refereed Indian Journals | 52 |
| 4. | Papers in Proceedings | 23 |
| 5. | Papers in Other Journals | 05 |
| 6. | Book | 02 |
| 7. | Book Chapter | 03 |
| 8. | Mini Review | 01 |
| 9. | Report | 13 |
| 10. | View/Opinion | 05 |
| 11. | Popular articles | 07 |
| 12. | Foreword/Editorial | 04 |
| | Total Publications: | 183 |
| 13. | Symposium/Conference Paper | 294 ^b |

^aShown under respective category and not added in the total; ^bnot added in the total

Teaching Experience

| | |
|-----------------------|-----|
| PG Teaching in years: | 35+ |
| UG Teaching in years: | 4+ |

Subjects Teaching/Taught

Class

| | |
|------------------------------------|--|
| Animal Physiology* | M.Sc. Bioscience |
| Endocrinology | M.Sc. Biochemistry |
| Developmental Biology | M.Sc. Bioscience (Till 2001) |
| Chronobiology (Special Paper) | M.Sc. Bioscience |
| Biostatistics & Computer Awareness | M.Sc. Bioscience, M.Sc. Microbiology, M.Sc. Biochemistry, M.Sc. Biotechnology (Till 2004, New department created), M.Sc. Forestry (Till 2000, course withdrawn thereafter) |

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|--------------------------------------|--|
| Computer Application & Biostatistics | 5-Year Integrated Course; Major in Bioscience 5-Year Integrated Course; Major in Microbiology |
| Chronobiology | M.Phil. (Till 1995) |
| Research Methodology & Data Analyses | M.Phil. (From 2007; M.Phil. program resumed from 2007); Ph.D. Course Work [from 2011]; PhD Course Work at GMU, Sambalpur, 2017 |
| French | Diploma in French, 1991-93; 1998-00 |

*Includes Chronobiology [till 2007], Endocrinology & Pheromones

As a Faculty in Other Departments/Universities

1. Guest Faculty in Delhi University, Delhi, Session 1993-1994, Subject Taught: Chronobiology.
2. Guest Faculty in Jiwaji University, Gwalior, 2000, Subject taught: Biostatistics and Computer in Biology.
3. Guest Faculty in the SOS in Linguistics and Languages, Pt. Ravishankar Shukla University, Raipur, 1991-1993, 1998-2000, Subject taught: French.
4. Guest Faculty in the SOS in Computer Science, 1999, Subject taught: Statistical Packages.
5. Core Faculty, First SERC School in Chronobiology, October 17-27, 2002, Lucknow, Subject taught: Chronobiology, Lab course: Autorhythmometry & Statistical Packages.
6. Guest Faculty in Delhi University, Delhi, Session 2002-2003, Subject Taught: Chronobiology, Autorhythmometry & Circadian rhythm in cave organisms.
7. Core Faculty, Second SERC School in Chronobiology, October 8-19, 2003, Raipur, Subject taught: Chronobiology, Lab course: Actigraphy.
8. Core Faculty, Third SERC School in Chronobiology, December 29, 2004 – January 07, 2005, Gulbarga, Subject taught: Chronobiology, Lab course: Actigraphy & Actogram construction.
9. Core Faculty, Fourth SERC School in Chronobiology, December 24, 2005 – January 04, 2006, Chidambaram, Subject taught: Chronobiology, Lab course: Actigraphy, Ambulatory blood pressure monitoring & autorhythmometry.
10. Core Faculty, Trends & Techniques in Chronobiology: A Workshop, March 20-25, 2006, Raipur, Subject taught: Chronobiology, Lab course: Actigraphy, Ambulatory blood pressure monitoring & autorhythmometry.
11. Guest Faculty, Gurukul Kangri University, Harwar, October 13-14, 2007.
12. Core Faculty, Fifth SERC School in Chronobiology, February 1-11, 2007, Meerut, Subject taught: Chronobiology, Lab course: Actigraphy, Ambulatory blood pressure monitoring & autorhythmometry.
13. Core Faculty, SERC School in Chronobiology, 24 December – 7 January 2011, University of Delhi, Delhi

Editorial Experience

1. Past Editor, Ravishankar University Newsletter, Raipur
2. Past Editor, Biome (Quarterly), Journal in the areas of Life Sciences (Official organ of Chhattisgarh Botanical Association, Raipur)
3. Past Associate Editor, Journal of Ravishankar University
4. Past Editorial Board Member, Bioscience Research Bulletin, Modinagar
5. Associate Editor, Journal of Parasitology and Applied Animal Biology
6. Editor-in-Chief, Newsletter, Indian Society for Chronobiology, 1995-1997, 2000-2008
7. Expert, Selection/Assessment Committee, 1998-2000, NISCOM, CSIR, New Delhi
8. Editor-in-Chief, Society for Ecological and Environmental Development, Bhilai, 1999-2000
9. Reviewer of many national and foreign journals
10. Ph.D. thesis reviewer of about twenty Indian Universities
11. Reviewer of grant proposals (research projects) submitted to different funding agencies
12. Editor-in-Chief, Journal of Ravishankar University, Part B (Science) from 2009-2017
13. Editor, Biological Rhythm Resaerch, 2017-present

Areas of Interest

Chronobiology, Shift work optimization, Animal Behaviour, Subterranean Biology, Ecology, Comparative Physiology, Endocrinology, Biodiversity and Biostatistics

Countries Visited

France, UK, Germany, Switzerland, Brazil, Italy, Romania, Tunisia and Israel

Complete List of Publications of Atanu Kumar Pati

Review Articles

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14. Baghel KK and Pati AK (2015). Pheromones as time cues for circadian rhythms in fish. *Biological Rhythm Research* 46, 659–669.
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1. Thapliyal JP, Pati AK, Singh VK and Lal P (1982). Thyroid, gonad and photoperiod in the hemopoiesis of the migratory red headed bunting, *Emberiza bruniceps*. Gen. Comp. Endocrinol. 46, 327-332.
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92. Pati AK (2004). Biological rhythms: an introduction. Third SERC School in Chronobiology, Gulbarga University, Gulbarga, December 29 - January 07, pp. 19-20. (Core faculty).
93. Pati AK (2004). Analysis of time series with reference to circadian rhythm studies. Third SERC School in Chronobiology, Gulbarga University, Gulbarga, December 29 - January 07, pp. 21-22. (Core faculty).
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99. Pati AK and Achari KV (2005). Shift work might produce negative effects on human longevity. XVII National Symposium on Chronobiology, Banaras Hindu University, Varanasi, October 1-3, p. 29.
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105. Pradhan RK, Parganiha A and Pati AK (2005). The influence of age on sleep behaviour in shift workers of CSEB. XVII National Symposium on Chronobiology, Banaras Hindu University, Varanasi, October 1-3, p. 36.
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 123. Pati AK (2006). Summarizing and Describing Data. Seminar-cum-Workshop on Comparative Endocrinology and Reproductive Physiology, Department of Zoology, Delhi University, New Delhi, October 04-13 (Guest Lecture).
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 138. Achari KV and Pati AK (2006). Study of personality, social satisfaction/ disruption and job satisfaction in shift workers: assessment of tolerance. XVIII National Symposium on Chronobiology, North-Eastern Hill University, Shillong, November 8-10, p. 29.
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 142. Poddar P and Pati AK (2006). Characteristics of locomotor activity rhythm in female *Clarias batrachus*: effect of background light intensities. XVIII National Symposium on Chronobiology, North-Eastern Hill University, Shillong, November 8-10, p. 34.
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 148. Pati AK (2007). Shift work: Consequences and management. Fifth SERC School in Chronobiology, February 1-11, Meerut. (Core faculty)
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155. Pati AK, Soni R, Kar A, Pradhan RK and Parganiha A (2007). Does nature of work influence sleep behaviour and circadian rhythm of rest-activity in shift workers? 18th International Symposium on Shiftwork and Working Time, Yeppoon QLD, Australia, August 27-31.
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160. Pande B and Pati AK (2007). Accuracy in prospective judgment of time in young adults as function of objective time interval. XIX National Symposium on Chronobiology, Madurai Kamaraj University, Madurai, December 7-9, p. 29.
161. Kar A, Soni R, Choudhary V, Pati AK and Parganiha A (2007). Status of circadian rhythm in rest-activity in diabetic and cancer patients. XIX National Symposium on Chronobiology, Madurai Kamaraj University, Madurai, December 7-9, p. 30.
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170. Pande B and Pati AK (2008). Prospective judgment of short-time intervals in young adults. The National Academy of Sciences, India, Seventy-Eight Annual Session and Symposium on Novel Approaches for Bio-medical Research, Section: Biological Sciences, Panjab University, Chandigarh, November 21-23, p. 18.

171. Pati AK (2008). Shift work. Multinational Graduate Course on Basic Chronobiology with Reference to Chronomedicine. Raipur, India, November 2-7, pp. 36-37 (Invited Lecture).
172. Chaturvedi CM, Kumar P and Pati AK (2008). Circadian rhythms in hypothalamic concentration of serotonin and dopamine always exhibit negative phase angles with reference to peak timing of plasma testosterone rhythm in male Japanese quail, *Coturnix coturnix japonica*, administered with 5-HTP and L-DOPA at 8- and 12-h phase relationships under LL. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27-29, p. 3.
173. Achari KV and Pati AK (2008). Morningness – eveningness preference in Central Indian shift workers as function of shift patterns. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27-29, p. 16.
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175. Kar A, Ramteke A, Soni RK and Pati AK (2008). Health issues, circadian timing system and psychophysiological status of the patients suffering from cancer and diabetes. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27- 29, p. 27.
176. Pande B and Pati AK (2008). Variability in perception of 10 s interval as function of paradigms and methods of estimation in a cohort of young subjects. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27- 29, p. 33.
177. Sultana R and Pati AK (2008). Absence of nighttime dipping and dampening of circadian rhythm in blood pressure variables of apparently healthy young women. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27- 29, p. 43.
178. Taj S, Jain V, Pande B, Parganiha A and Pati AK (2008). Circadian variations in lipid profile in a cohort of eight human subjects under 30-h sustained wakefulness. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27- 29, p. 44.
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180. Babita P, Arti P and Pati AK (2008). Circadian variation in 60 s interval production in apparently healthy human subjects in 30-h constant routine. XX National Symposium on Chronobiology, Pt. Ravishankar Shukla University, Raipur, December 27-29, p. 46.
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184. Pande B, Parganiha A and Pati AK (2009). Circadian variation in 10- and 60-s interval production in young subjects in 30-h constant routine. The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. 15.
185. Patel H, Gupta O, Venugopal R and Pati AK (2009). Comparison of the characteristics of circadian rhythm in physiological variables between national level volleyball players of school games federation of India exhibiting different life style patterns. The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. 17.
186. Soni RK, Kar A, Pradhan RK, Parganiha A and Pati AK (2009). Availability of nap during night

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 188. Pati AK, Kar A, Sultana R, Vaidya N and Parganiha A (2009). Long sleepers tend to be nondippers: Is it a paradox? The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. 76.
 189. Parganiha A, Soni RK and Pati AK (2009). Adjustment in the pattern of activity during leisure, sleep and work as function of shift in rotational shift workers. The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. 83.
 190. Ramteke A and Pati AK (2009). Influence of moonlight on the characteristics of locomotor activity in Indian walking catfish, *Clarias batrachus*. The Third International Congress of Applied Chronobiology and Chronomedicine, Akko, Israel, May 17-22, p. 90.
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 193. Pati AK (2010). Human chronobiology. XXI National Symposium on Chronobiology. February 2-4, Jamshedpur Co-Operative College, Jamshedpur, p. 5 (Invited Lecture).
 194. Pati AK and Ramteke A (2010). The influence of moonlight on locomotor activity rhythm in *Clarias batrachus*. XXI National Symposium on Chronobiology. February 2-4, Jamshedpur Co-Operative College, Jamshedpur, p. 15.
 195. Kar A, Soni RK, Parganiha A and Pati AK (2010). Characteristics of sleep-wake cycle and nap in diabetic subjects. XXI National Symposium on Chronobiology. February 2-4, Jamshedpur Co-Operative College, Jamshedpur, p. 16.
 196. Pande B, Parganiha A and Pati AK (2010). Cognitive ability of short-interval judgment in humans under free-living conditions and constant routine: Aspects of rhythm, accuracy and gender. XXI National Symposium on Chronobiology. February 2-4, Jamshedpur Co-Operative College, Jamshedpur, p. 20.
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 199. Vaidya N, Parganiha A and Pati AK (2010). Circadian blood pressure and heart rate variability in young Southeast Indian population. XXI National Symposium on Chronobiology. February 2-4, Jamshedpur Co-Operative College, Jamshedpur, p. 35.
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 209. Gupta O, Patel H, Venugopal R and Pati AK (2010). Circadian rhythm in physiological and performance variables of national level Inter-University judo and basketball players. 26th Conference of the International Society for Chronobiology. July 5-9, Vigo, Spain, p. 39.
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 235. Sultana R and Pati AK (2012). Variability and heritability of nocturnal blood pressure dipping in natives of rural Chhattisgarh, India. International Congress on Chronobiology (ICC 2012), Delhi, India, October 3-7, p. 97.
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237. Kankariya S, Singh A, Parganiha, A and Pati AK (2013). Different components of activity rhythm in house swift, *Apus affinis* may vary as function of day length. II National Conference on Recent Advances in Biological Sciences. November 25-27, Pt. Ravishankar Shukla University, Raipur, p. 54.
 238. Pande B, Parganiha A and Pati AK (2013). Rhythm detection in short-interval time estimation (SITE) is less probable in humans under free-living conditions: Reasons are unknown. II National Conference on Recent Advances in Biological Sciences. November 25-27, Pt. Ravishankar Shukla University, Raipur, p. 65.
 239. Singh A, Kankariya S, Parganiha A and Pati AK (2013). Circannual rhythm in activity of Indian cliff swallow, *Hirundo fluvicola*. II National Conference on Recent Advances in Biological Sciences. November 25-27, Pt. Ravishankar Shukla University, Raipur, p. 80.
 240. Pati AK (2014). Time in Biology and Medicine. 60th Annual Conference of Physiologists and Pharmacologists of India. Organized by SCB Medical College, Cuttack, in Puri, Odisha, November 20-22, pp. 13- 14 (Invited Lecture).
 241. Pati AK (2014). Do cavernicoles possess a clock? National Seminar - Recent Advances in Biological Sciences, Govt. RD College, Wadrafnagar, November 29-30, p. 7 (Invited Lecture).
 242. Parganiha A and Pati AK. (2015). Costs and benefits of human shift optimization. National Seminar on Prospects of Life Science for Human Welfare with Special Reference to Chhattisgarh, Govt. VYTPG Autonomous College, Durg, February 7-8, 2015.
 243. Chandrakar P, Pande B and Pati AK (2015). Individual propensity for specific chronotype as function of use of social networking sites and place of residence in a population of school students from Chhattisgarh. XXV National Symposium on Chronobiology-Time in Biology and Medicine, March 27-29, Pt. Ravishankar Shukla University, Raipur, p.50.
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 247. Pati AK (2015). Role of IQAC in HEIs. Kalyan Post Graduate College, Bhilai Nagar, September 15 (Invited Lecture).
 248. Jadhav SK, Pati AK, Naik ML, Quraishi A, Bhushan S, Sharma DK and Nishad CK (2016). Phyto-Sociology and diversity of tree in the forest of Jashpur district, Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.68.
 249. Jadhav SK, Pati AK, Naik ML, Quraishi A, Nishad CK, Sharma DK and Bhushan S (2016). Mushrooms and rare plants of Surguja and Baster districts of Chhattisgarh state. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.128-129.
 250. Kalyani G, Singh R, Vaidya N, Dwivedi R, Dadsena K, Verma NK, Parihar AS, Pati AK and Mitra M (2016). Quest for bioactive phytomolecules against Psoriasis based on traditional healing practices in Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global

- Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.170-171.
251. Dadsena KK, Verma NK, Vaidya N, Singh R, Kalyani G, Dwivedi R, Pati AK and Mitra M (2016). Documentation of conventional knowledge for curing Rheumatoid Arthritis in Mainpat region of Surguja district of Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.171-172.
 252. Verma NK, Dadsena KK, Kalyani G, Dwivedi R, Vaidya N, Singh R, Pati AK and Mitra M (2016). Medicinal plants used for the treatment of Diabetes among the populations of Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.172.
 253. Vaidya N, Dwivedi R, Kalyani G, Singh R, Dadsena KK, Verma NK, Pati AK and Mitra M (2016). Socio-demographic profile and Ethnomedicinal practices with special reference to Rheumatoid Arthritis and Psoriasis among the inhabitants of Jashpur district. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.173.
 254. Singh R, Kalyani G, Verma NK, Dadsena KK, Dwivedi R, Vaidya N, Pati AK and Mitra M (2016). Herbal formulation of plants used for Rheumatoid Arthritis in Mahasamund district, Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p.174.
 255. Dwivedi R, Vaidya N, Singh R, Kalyani G, Verma NK, Dadsena KK, Pati AK and Mitra M (2016). A study of Ethnomedicinal plants used for curing Rheumatoid Arthritis in Raigarh district of Chhattisgarh, India. 3rd International Congress of Society of Ethenopharmacology, Ethenopharmacology & Evaluation of Medicinal Plants - Global Perspectives, February 19-21 [published in Journal of Ravishankar University - Special issue], Volume 29 (1), p. 175.
 256. Pande B, Parganiha A, Patra PK and Pati AK. (2016). Temporal profiles of serum inorganic ions in young human subjects under 30-h constant routine. International Symposium on Integrative Physiology and Comparative Endocrinology (ISIPCE-2016), February 12-14, Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi. p. 57.
 257. Pati AK (2016). Research under constraints: Good or Bad? National Conference on Prospects of Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences, March 02-03, Department of Zoology, Govt. Nagarjuna P.G. College of Science, Raipur. p.27 (Invited Lecture).
 258. Pande B, Randler C and Pati AK. (2016). What do we think of non-human animals? in National Conference on Prospects in Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences, March 02-03, Department of Zoology, Govt. Nagarjuna P.G. College of Science, Raipur. p. 89.
 259. Pati AK (2016). Chronobiology: Implications for Human Health and Welfare. XXVI National Symposium on Chronobiology, June 02-03, Department of Zoology, University of Mysore, Mysuru. P. 03 (Keynote address).
 260. Pande B, Parveen N, Parganiha A and Pati AK. (2016). Chronotype distribution and sleep wake quality among teenagers of the south-eastern India. XXVI National Symposium on Chronobiology, June 02-03, Department of Studies in Zoology, University of Mysore, Mysuru. p. 28-29.
 261. Singh MM, Pande B and Pati AK (2016). Advancement in the timings of mid sleep on work days and free days in the population of street vendors in urban India. XXVI National Symposium on Chronobiology, June 02-03, Department of Zoology, University of Mysore, Mysuru. p.55.
 262. Pati AK (2016). An introduction to Actigraphy. Proceedings of 62nd Annual Conference of Physiologists and Pharmacologists of India APPICON 2016, All India Institute of Medical Sciences (AIIMS), Patna, October 21-24. [Abstract published in Indian Journal of Physiology

- and Pharmacology (Supplement) Volume 60(5), p.20.] (Invited Lecture).
263. Pati AK (2016). Chronobiology in relation to Bioinformatics. National Workshop on Recent Development and Future Trends of Bioinformatics in Biological Science, Department of Zoology, Berhampur University, Berhampur, December 26-27 (Invited Lecture).
 264. Pati AK (2017). Alternatives to dissections: Yes – No – Don't know. National Workshop on Alternatives of Dissections and Animal Experimentation in Zoology, Bhilai Mahila Mahavidyalaya, Bhilai Nagar, January 27 – February 2 (Invited Lecture).
 265. Pati AK (2017). Karst wetland of Kotumsar cave – A fact sheet. Workshop on Conserving Wetland Wealth of Chhattisgarh. Chhattisgarh State Planning Commission, National Institute of Ecology, New Delhi, Indira Gandhi Agricultural University, Raipur, February 2-3 (Invited Lecture).
 266. Pati AK (2017). How good is dichotomy index for diagnosis and prognosis of diseases? IndoUS Workshop cum International Symposium on Biological Timing and Health Issues in the 21st Century. University of Delhi, Delhi, February 21-24, p. 23 (Invited Lecture).
 267. Pati AK (2017). Application of clocks principal can make visually impaired on a par with the sighted. National Science Day-2017, Pt. Ravishankar Shukla University, Raipur, March 4 (Invited Lecture).
 268. Pati AK (2017). Introduction to Chronobiology. 3rd National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 21-27 (Core Faculty).
 269. Pati AK (2017). Chronobiology Basics I. 3rd National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 21-27 (Core Faculty).
 270. Pati AK (2017). Chronobiology Basics II. 3rd National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 21-27 (Core Faculty).
 271. Pati AK (2017). Circadian rhythm in cave fish with special reference to *Nemacheilus evezardi*. 3rd National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 21-27 (Core Faculty).
 272. Pati AK (2017). Research methodology with reference to citations and citation indices. National Workshop on Research Methodology in Sports Sciences, SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur, March 28-30 (Invited Lecture).
 273. Pati AK (2017). Choices - chances - changes: with special reference to CBCS. Strategies and Challenges in Implementing Semester System and Choice Based Credit System, Govt. Nagarjuna P.G. College of Science, Raipur, June 23 (Invited Lecture).
 274. Pati AK (2017). Actigraphy - evolving role in diagnosis and management of human diseases. 4th National Conference of Association of Physiologists of India, ASSOPICON-2017, Kalam Centre, King Georges Medical University, Lucknow, December 1-3 (Invited Lecture).
 275. Pati AK (2017). Novel Chronobiology – Nobel Prize – Raipur Protocol. 3rd National Conference of Zoological Society of Chhattisgarh on “Prospects of Innovations in Life Sciences and Socio-Economic Challenges,” Department of Zoology, C.M.D. Post Graduate College, Bilaspur, December 2-3 (Invited Lecture).
 276. Pati AK (2017). Research Ethics. Refresher Course in Research Methodology, UGC Human Resource Development Centre (HRDC), Pt. Ravishankar Shukla University, Raipur, December 1-21.
 277. Pati AK (2017). Circadian Clock - Story of the Nobel Prize and Implications for Human Health and Welfare. INSPIRE Internship Science Camp. Sponsored by Department of Science and Technology (DST). Pt. Ravishankar Shukla University, Raipur, December 27-31.
 278. Pati AK (2018). Research and Ethics: from Anthropology to Zoology. Induction Training Program for Lecturers, Berhampur University, Berhampur, January 15-28; Delivered lecture on January 16, 2018 (Invited Lecture).
 279. Pati AK (2018). Karst Wetland of Kotumsar Cave. Two-day National Seminar on Research – Development of State Resources; Organized by Chhattisgarh Geography Association and

- CV Raman University, Kota, Bilaspur, Chhattisgarh, January 22-23; Delivered lecture on January 23, 2018 (Invited Lecture).
280. Pati AK (2018). Circadian clock - Implications for human health and welfare. Nobel Prize Seminar 2017. Sambalpur University, 25 January 2018, pp. 2-6 & p. 44 (Invited Lecture).
 281. Pati AK (2018). Circadian rhythms and beyond – Basics for beginners. National Workshop “Know your Biological Clocks! How to rock your health by synchronizing your circadian body clocks with rhythms of the nature?” Gangadhar Meher University, Sambalpur, February 3-4 (Core Faculty).
 282. Pati AK (2018). Research under constraints. Refresher Course in Basic Science (IDC), UGC Human Resource Development Centre (HRDC), Sambalpur University, Sambalpur, March 6-26.
 283. Pati AK (2018). Introduction to Chronobiology – I. 4th National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 10-16 (Core Faculty).
 284. Pati AK (2018). Introduction to Chronobiology – II. 4th National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 10-16 (Core Faculty).
 285. Pati AK (2018). Analysis of time series data. 4th National Workshop: Trends & Techniques in Chronobiology, School of Life Sciences, Pt. Ravishankar Shukla University, Raipur, March 10-16 (Core Faculty).
 286. Pati AK (2018). Integrity in higher education and research. National Workshop on Plagiarism and IPR: A Prime Concern for Academia, jointly organized by Pt. Sundarlal Sharma Library, Pt. Ravishankar Shukla University and Govt. Nagarjuna Post Graduate College of Science, Raipur, June 2-3 (Keynote address).
 287. Pati AK (2018). Why should we know about the clocks within us? INSPIRE Internship Science Camp. Sponsored by Department of Science and Technology (DST). Pt. Ravishankar Shukla University, Raipur, August 7-11.
 288. Pati AK (2018). Why should we know about our internal clocks? International conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 125 (Keynote address).
 289. Singh MM, Chandel P, Parganiha A and Pati AK (2018). Exposure to cell phone tower radiation disrupts rest-activity rhythm and sleep in humans. International Conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 113.
 290. Mishra P, Mohanty AK, Parganiha A and Pati AK (2018). Spatial and temporal heterogeneity in the peak timings of circannual production pattern of two prawn species, *Penaeus monodon* and *Fenneropenaeus indicus* from Chilika lagoon. International Conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 136.
 291. Sahu BK, Pati AK and Parganiha A (2018). A transition from diurnalism to nocturnalism seems imminent in the population of urban cattle. International Conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 145.
 292. Baghel KK and Pati AK (2018). Characteristics of the circadian system of zebrafish: solitude *versus* shoal. International Conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 147.
 293. Kujur P, Pati AK and Parganiha A (2018). Properties of circadian rhythm in locomotor activity partially conform with the Aschoff's first rule under diverse environmental and social settings. International Conference on Emerging Researches in Bioscience, Department of Zoology, School of Studies in Life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 153.
 294. Pradhan S, Pande B, Agashe CD and Pati AK (2018). Characteristics of rest-activity

circadian rhythm, and sleep latency in a sample of elite female basketball players. International Conference on Emerging Researches in Bioscience, Department of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur, October 28-30, pp. 156.